

CONFORMITY INSPECTION

Work Order ID 76894

76894

MATERIAL CERTIFICATION
REQD UPON DELIVERY

Page 1

Wednesday, November 23, 2011 11:21:40 A

Item ID: D4025-5 Accept *N900040100* Setup Start *NS1*
Revision ID: Stop *NS2*
Item Name: Fuel Quantity Sender
Start Date: 11/23/2011 Start Qty: 2.00 *2* Cust Item ID:
Required Date: 11/30/2011 Req'd Qty: 2.00 *2* Customer:
Reference:

Approvals: Process Plan: ASAP Date: 11/11/23 Tooling: Date: Run Start *NR1*
QC: Date: SPC (Y/N): Date: Stop *NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D4025	B

100 0.00

100

Purchasing

Purchasing

Memo

Issue P/O: 15520

Purchase part as per Dwg D4025

Part #: 224-260

Possible Supplier: Forsters Instruments

Material release note required

0.00

CL 11/11/23 (2)

110 Receive & Inspect for Damage & Mat'l Certs 0.00

110

Packaging

Packaging

Memo

***HOLD IN VERTICAL POSITION AND MEASURE RESISTANCE
READING FOR LOWER LIMIT. ROTATE 180 DEGREES AND MEASURE
RESISTANCE FOR UPPER LIMIT AS PER DWG***

REMOVE TRANSPORT PIN

0.00

Puppr (2)

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

Work Order ID 76894***76894***

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Required Date: 11/30/2011 Req'd Qty: 2.00 ***2*** Customer:
Reference:

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120 *120* QC Quality Control	QC6- Inspect dimensions to drawing Memo ***HOLD IN VERTICAL POSITION AND MEASURE RESISTANCE READING FOR LOWER LIMIT. ROTATE 180 DEGREES AND MEASURE RESISTANCE FOR UPPER LIMIT AS PER DWG*** ***REMOVE TRANSPORT PIN***	0.00 0.00							<u>8/11/12/19</u> <u>(2)</u>
130 *130* Packaging Packaging	Identify as per dwg & Stock Location <u>141A</u> Memo	0.00 0.00							<u>11/12/20</u> <u>(2)</u>
140 *140* QC Quality Control	QC21- Final Inspection - Work Order Release Memo	0.00 0.00							<u>11/12/20</u> <u>(2)</u>

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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NOTE: Date & initial all entries

Picklist Print

Wednesday, November 23, 2011 11:21:44 AM

Page 1

Work Order ID: 76894

76894

Parent Item: D4025-5

D4025-5

Parent Item Name: Fuel Quantity Sender

Start Date: 11/23/2011

Required Date: 11/30/2011

Start Qty: 2.00

Required Qty: 2.00

Comments: IPP REV:A 11.11.22 NEW ISSUE DD VERF;EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
224-260		Purchased	No			110	Each	0.0000	1	2			
224-260									**				
Fuel Sender													

P011/2/19 @

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

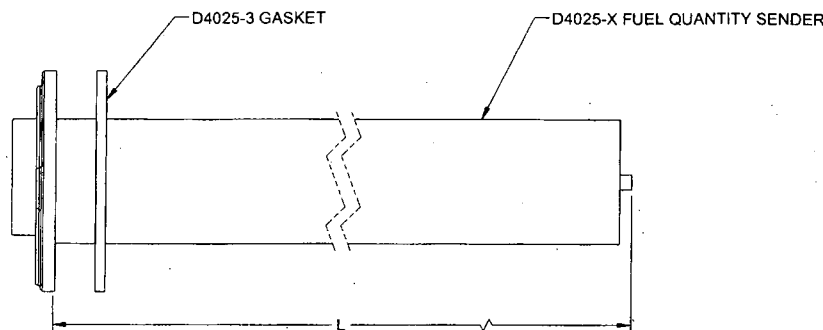
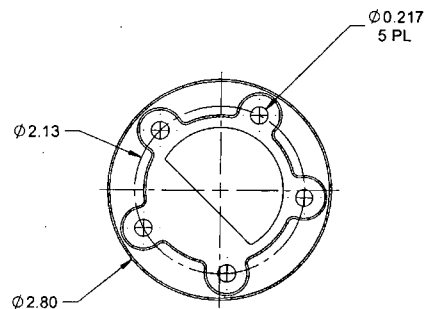
Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
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NOTE: Date & initial all entries

DART AEROSPACE PART NUMBER	JOHN CAMERON AVIATION PART NUMBER
D4025-1	VDO-M47-JCA
D4025-3	N/A
D4025-5	N/A

SPECIFICATION CONTROL DRAWING



DART PART NUMBER	DESCRIPTION	MANUFACTURER	MANUFACTURER PART NUMBER	POSSIBLE SUPPLIER	SUPPLIER PART NUMBER	LENGTH "L"	LOWER RESISTANCE LIMIT	UPPER RESISTANCE LIMIT	MATERIAL
D4025-1	FUEL QUANTITY SENDER	VDO SIEMENS	224-011-000-650	FORSTER INSTRUMENTS	224-265	25.59	82.2 ± 2.5 OHMS	2.5 ± 1.5 OHMS	N/A
D4025-3	GASKET	VDO SIEMENS	N/A	FORSTER INSTRUMENTS	226-053	N/A	N/A	N/A	RUBBER
D4025-5	FUEL QUANTITY SENDER	VDO SIEMENS	224-011-000-600	FORSTER INSTRUMENTS	224-260	23.62	85.3 ± 2.5 OHMS	2.5 ± 1.5 OHMS	N/A

SHOP COPY
RETURN TO
ENGINEERING
UNCONTROLLED COPY
SUBJECT TO AMENDMENT
WITHOUT NOTICE
WORK ORDER
NO. 76894

RELEASED
2011-11-16

- NOTES:
- 1) MATERIAL: N/A
 - 2) FINISH: N/A
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: IDENTIFY WITH DART P/N "D4025-X" AND B/N USING FINE POINT PERMANENT INK MARKER
 - 7) WEIGHT: D4025-1 - 0.39 lbs
D4025-3 - 0.01 lbs
D4025-5 - 0.37 lbs
 - 8) RECEIVING INSPECTION REQUIREMENTS:
 - a) REMOVE TRANSPORT PIN AND INSPECT FOR VISUAL DAMAGE
 - b) OVERALL CYLINDER LENGTH - SEE TABLE
 - c) HOLD IN VERTICAL POSITION AND MEASURE RESISTANCE READING FOR LOWER LIMIT
 - d) ROTATE 180° AND MEASURE RESISTANCE FOR UPPER LIMIT

B	ADDED -3, ADDED SUPPLIER PART NO.	BC	11.10.04
A	NEW ISSUE	HS	10.02.05
REV.	DESCRIPTION	BY	DATE
DESIGN	BC		
DRAWN	BC		
CHECKED	BC		
MFG. APPR.	BC		
APPROVED	BC		
DE APPR.	BC		
DATE	11.10.04		

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO. D4025
REV. B
SHEET 1 OF 1
SCALE NTS

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W/O:		WORK ORDER CHANGES					
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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO15520

Purchase Order Date 11/23/11

PO Print Date 11/24/11

Page Number 1 of 1

Order From :

VC-FOR002

FORSTER INSTRUMENTS
7141 EDWARDS BLVD
MISSISSAUGA, ON L5S 1Z2
CANADA

Contact Name

Vendor Phone

905 795 0555

Vendor Fax

905 795 0570

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	224-260	Fuel Sender	12/02/11 Yes	2.00 Each	FedEx Overnigh	\$87.4400	\$174.88

Special Inst:

AS PER DWG D4025 REV. B
B76894
NOTE: PART NEED TO BE TESTED FOR
OHMS
AND PLEASE INCLUDE REPORT

PO Total:

\$174.88

Change Nbr: 3

Change Date: 11/24/11

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required when applicable



FORSTER INSTRUMENTS INC.

7141 EDWARDS BLVD., MISSISSAUGA, ONTARIO L5S 1Z2
D - U - N - S 25 - 530 - 6649
PHONE (905) 795-0555 • FAX (905) 795-0570
TOLL FREE 1-800-661-2994 • TOLL FREE FAX 1-800-632-9943
Toll Free within Canada only

Automotive and Industrial Instruments, Controls and Equipment

- net 30 days from date of invoice unless otherwise stated.
- pay from invoice, statements upon request only.
- all claims for shortage must be made within ten days after receipt of goods.
- all claims for damage must be made with the carrier.
- all goods F.O.B. our Mississauga warehouse.
- orders subject to a minimum invoice value of \$50.00.
- goods cannot be returned without our Return Authorization Number.
- returned goods must be freight prepaid.
- any warranty expressed or implied is that of the manufacturer as stated in their literature.
- title of goods does not pass until goods are paid for in full.
- E. & O. E.

A/C 11.2

Page: 1

S
O
L DART AEROSPACE LTD.
D 1270 ABERDEEN STREET

T
O HAWKESBURY, ON K6A 1K7

S
H
I DART AEROSPACE LTD.
P 1270 ABERDEEN STREET

T
O HAWKESBURY, ON K6A 1K7

CUSTOMER	CUST. ORDER NO.	G.S.T. NUMBER	PROV. TAX NO.	S/M TYPE	PACKED BY
PARAER ID P015520		R101272607		SLOA	
ORDER DATE	DATE SHIPPED	OUR SALES ORDER NO.	SHIPPING REF. NO.	SHIP VIA	
24.11.11		S19734	01	FEDEX AIR	
LINE NO.	QUAN.	SHIP	B/O	PART NUMBER	DESCRIPTION

FUEL SENDERS AS PER CUSTOMER
SPECS.

SHIP ASAP PLEASE! *Ship Dec 8 or sooner*

REQUIRES: NOV 29/11

ENCLOSED C OF C

24 2 *2-* 0 224-260-3P FUEL SENDER, 23.6", 54 m
Pick 2 Sets; P:0 C:2

=====

SPECIAL INSTRUCTIONS: AS PER DWG D4025 REV. B *B2*
876894

NOTE: PART NEEDS TO BE TESTED FOR OHMS
AND PLEASE INCLUDE REPORT

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FORSTER INSTRUMENTS INC.



Gauge & Sender In-Process/ Final Inspection Form

Sales Order #:	19734	Cust. Prod:	—	Start Date:	DEC 14/11
Forster Part #:	274-260-3P	Rev:	NIR		
Product Description:	FUEL SENDER 23.6" 54M	Qty:	2		

Harness In-Process	Tolerance	Within Spec.	Inspector's Initial:	Corrections Needed:
Continuity	.1/ .5 ohm			
Visual	N/A			
Pull Test	1 to 2 in/lbs.			

Gauge In-Process	Function	Within Spec.	Inspector's Initial:	Correction Needed:
Visual	N/A			

Final Inspection Gauge & Sender/Harness Assembled:		Tolerance	Within Spec.	Inspector's Initial:	Correction Needed:
Visual		N/A			
Gauge/Speed Sw Settings	FS HZ @ SW. CL.-				
Sender	Resistance				
	Vpp				
	Freq:				
	Duty Cycle:				

	Function:	Within Spec:	Inspector's Initial:	Correction Needed:
Test Assembly on test bench with test harness.	✓	✓	CF	

Comments:	FULL	EMPTY
1 ST	1.7	84.4
2 ND	3.1	86.4
Completion Date:	DEC 14/11	



FORSTER INSTRUMENTS INC.



NOVEMBER 24, 2011

DART AEROSPACE LTD.
1270 ABERDEEN STREET
HAWKESBURY, ON K6A 1K7

CERTIFICATE OF COMPLIANCE

We hereby certify that this shipping lot of 2 VDO tube type senders 224-260-SP

On your purchase order P015520, our packing slip S19734 tested within the following ohms range.

EMPTY

85.3 +/- 2.5 ohms

FULL

2.5 +/- 1.5 ohms

Yours truly


DON STRONGITHARM
dcs/rmj